1	SPLVT	
GIGHT BERNACE LTELT	Work Order:	19665
A Grosstube	Part Number:	D2890
Drawing: D2890 Rev. B. D6008 Rev. A	Qty:	274
		Page 1 of 2

Step	Location	Procedure	Ву∕	Date	Qty
1	DC	Issue Traveller	ML	03.09.19	14
		Dwg. not required RF 02.11.05	TX	03.07.17	14
2	PG	Issue P/O: 1005/08			1945
!		a) Extrude as per Dwg D6008 length = 180" (Ref. D6008-180)			
		b) Material: 7075-T6/T6511 (WW-T-700/7 or QQ-A-225/9 or			
	الما المراقع والمسادي	QQ-A-200/11) ) Seamless aluminum tube			ŀ
		c) Minimum ultimate tensile strength = 77ksi			
	4:	d) Minimum tensile yield strength = 66ksi	11	03-09-22	11/
		e) Material certification required	VI	0301-66	1/
3	RG	Receive and inspect for transit damage		04-01-05	16
		Ensure material certification attached	Y_	4	10
4	QC6	Inspect dimensions as per Dwg D6008 and check 180" length	PA	1	17.5
	<b>%</b>		NO.	04.01.13	16
5	FP *	Acid etch and alodine as per QSI 005 4.1			11
		Inside and outside of tube	1/2	04.01.13	16
6	LG	Bend as per Dwg D2890 and Folio FT002	m 1)	و سام در در	2
		Sign Page 2	DI	04-11-26	
7	QC6	Inspect dimensions per Dwg D2890	,		
		Sign Page 2 SEE PAGE 2 /	<u> </u>		
8	LG 🧆 🐣	Deburr and Polish	(/)		2
		Sign Page 2	TA	04-11-26	
9	FP	Acid etch and alodine as per QSI 005 4.1		1	
		Inside and outside of tube	W		2
	3,	Sign Page 2	יע	04-11-26	_
10	QC5	Inspect work to Step 9 Sign Page 2	'		
		Sign Page 2	ļ		
11	ST	Identify and stock	ND	4 11-32	->
				04-11-26	-
12	AC	da 6 /	5	·	
		Cost / part: 83/.98 Close W/O 92231	PUC	05.01.31	2
13	DC		1201	N 20 15	2
		Inspect Level 21	HXX)	05,02.15	

Rev	Date	Change	Revised By	Approved
A	99.05.31	New Issue, ECN 200	DM	Α
В	00.04.11	Remove painting step	EC	
C	02.10.18	Re-format; Added spec	KJ K	LYASSA



DART AEROS AS SID	Work Order:	19665
Description: Aft Crosswife	Part Number:	D2890
Drawing: D2890 Rev. B; D6008 Rev. A	Qtv:	14
D. a.m		Page 2 of 2

W/O Step	. <b>A</b>	В	С	D	Е	F	G	Н	ı	J	К	L
6	E 12	D-H-16	Man	J								
7	B 23	En nilul.Q										
8	04-11-18	DP BE					·					
9	DPOL	M. A.		. 8								
10	DF 05:01:21	,			-	-						





Uelzener Weg 36 - 59425 Unna

## Abnahmeprüfbescheinigung 3.1 B - EN 10204

Inspection Certificate 3.1 B - EN 10204 | Certificat de Reception 3.1 B - EN 10204

Kunde: Client:

Dart Aerospace Ltd.

1270 Aberdeen Street

Hawkesbury, ON Canada Zeugnisnummer:

Cert No .: / No. du certificat:

Bestellnummer: Order No. / No. de commande

Auftrag:

6438/2

2005668

Produkt: Product / Produit:

Tubes seamless extruded

Our Reference/Notre Reference:

Spezifikation:

QQA 200/11e, Tol. Acc to ASTM B 210

Specification:

Werkstoff:

7075

**K6A1K7** 

Zustand:

T 6511

Alloy/Alliage: Abmessung

2P.O.-2005668

x 60,290 mm x 11,130 mm x 4572,00 mm

Temper/État

Size / Dimension Kennzeichnung

Article D6008-180 3.250" x 0.438"

Cert No.404/03-AWU-7075-T6511-Cast No.1049-QQA-200/11E-3.250" OD X0.438"Wall-Heat.No.2974-Lot6438-2-

Marking/Marquage: Lieferung:

Delivered Material / Matérial délivre:

16 1146

1. Chemische Analyse

Chemical Analysis / analyse chimique

			/											
		Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Zr	Bi	Sn	Ni
Charge/	min.			1,2		2,1	0,18	5,1						
Cast No.	max.	0,40	0,50	2,0	0,30	2,9	0,28	6,1	0,20		ļ			
1049/03		0,124	0,239	1,361	0,057	2,372	0,192	5,683	0,037	0,004	0,0153	0,0001	0,0013	0,0030

Hydrogen content:

0,13

ccm/100 g Ai

Elemente ohne Angabe < 0,01 % / Elements without indication < 0,01 %

## 2. Mechanische Eigenschaften

## Mechanical Properties / Valeurs Mécaniques

Anforderungen Requirements	tensile (Rm) Ksi	yield (Rp0,2) Ksi	elongation 2" %	elongation A %	Hardness HB	
min. max.	77,0	66,0	,			
1 2	86,275 86,710	79,750 80,620	10,0 10,0		158 154	

Ergebnis der Es wird bestätigt, daß die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellannahme entspricht Prüfungen:

Test results:

We confirm that the delivery has been tested and applies to the agreements made on receipt of the order

Résultats:

Nous confirmons que la livraison a été controlée et correspond avec les conventions faites à la réception de la commande



delivery note

7620

page:

28.11.2003

date: customer

Min. yield strength 66 ksi

Tubes protected with corrosion protective oil

Tubes line marked

Packing list, Inspection certificate

seaworthy wooden cases

number of packages:

1

number of pieces:

22

item quantity unit net kgs

16,000 PC

AWU article: 16539 / Customer article: D6008-180 3.250  $\times$  0.438  $\times$  180

/Tariff no. 76082091

product: TUBES / seamless extruded / EN AW-7075 / round

condition: T 6511 / QQA 200/11E

outer diameter:

3,250 INCH Tol.

+0,016 -0,016

tol for mean OD

+0,008 -0,008

inner diameter:

2,374 INCH

wall thickness:

0,438 INCH Tol.

+0,043

-0.043

fixed length

180,000 INCH Tol.

+0,125.

test report acc. to EN 10204/3.1B / RM 531 / Rp0,2: 455

straightness 0,01 INCH / 1 FEET / RMS outer 25

tol. on quantity +10 % -10 %

3.250" OD 0.438" Wall, 180" lengths

Part Number D6008-180 crosstube

Surface Finish max. RMS 25

Tolerances per ASTM B210

Straightness 0.010" deviation /12" length

Outside surface: max. defects up to 0.005" (longitudinally)

Min. ultimate tensile strength 77 ksi

Min. yield strength 66 ksi

Tubes protected with corrosion protective oil

Tubes line marked

Packing list, Inspection certificate

Packing:

seaworthy wooden cases

number of packages:

1

number of pieces:

16

Terms of payment:

30 days after date of delivery

terms of delivery: DDP(Delivered, Duty, Paid)

weight:

gross

1321,000

net

1028,000

Packstücke

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